

**Method and device for detecting temperature-dependent parameters, such as the association/dissociation parameters and/or the equilibrium constant of complexes comprising at least two components**

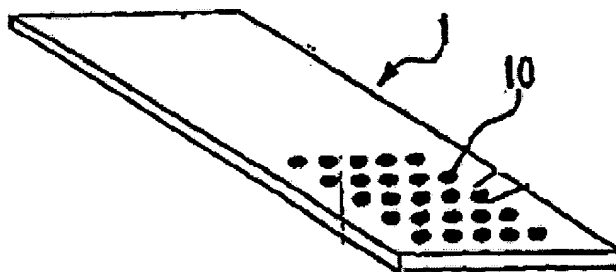
**Patent number:** DE10002566  
**Publication date:** 2001-08-02  
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**Classification:**  
- international: C12Q1/68; C12M1/42; G01N21/64  
- european: C12Q1/68B10A  
**Application number:** DE20001002566 20000121  
**Priority number(s):** DE20001002566 20000121

**Also published as:**

WO0153822 (A3)  
WO0153822 (A2)  
US2004091862 (A1)  
CA2398078 (A1)  
EP1248948 (B1)

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The invention relates to a method and a device for detecting temperature-dependent parameters, such as the association/dissociation parameters and/or the equilibrium constant of complexes that comprise at least two components. The first components which are situated in a liquid phase are connected to measuring points, preferably on a planar optical waveguide of a reaction carrier, produced by second components that are coupled to the solid reaction carrier and specifically bind to the first components, by means of a, preferably heatable, device for contacting the liquid phase and the reaction carrier, whereby complexes are produced. Fluorescent dyes which are bound to the first components and/or second components are excited in the surface area of the planar optical waveguide, preferably by means of the evanescent field of the excitation light that is coupled into the planar optical waveguide, for emitting fluorescence light. The emitted fluorescence light is detected in the area of the optical waveguide or by means of excitation light emanating from the area of the optical waveguide. Production or dissociation of the complexes comprising first components and second components is observed as a temperature function.

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